8.2 MODEL INPUT

The Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Version 3 (SCREEN3), (dated 96043) model, was used for this analysis.

8.2.1 EMISSION AND SOURCE DATA

Emission units at the facility and the modeled stack parameters are listed in Table 8.2-1.

Table 8.2-1
Emission Units and Stack Parameters (Modeled)

					T				
Unit No.	Туре	Ht.	Temp.	Vel.	Diam.	Emissions in lb/hr SO ₂ PM-10 NOx		Co	
	Door Coating Spray	+	\ \ \ /	(======	(***)	501	1 1/1-10	INOX	CO
1	Booth	9.14	293	40.43	0.61	0.0	0.46	0.0	0.0
3	Roll Coater # 2 ² , Fan Coater # 5 ²	7.01	293	3.59	0.91	0.0	0.0	0.0	0.0
4	Oven Heater # 1- 140,000 Btu/hr	6.09	293	0.001	5.48	0.000082			
	Oven Heater # 2 -	0.07	293	0.001	3.46	0.000082	0.0010	0.014	0.0115
5	140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	0.0115
6	Oven Heater # 3 - 140,000 Btu/hr	6.09	293	0.001	5.48	0.000000	0.0010		
	Oven Heater # 4 -	0.09	293	0.001	3.48	0.000082	0.0010	0.014	0.0115
7	140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	0.0115
8	Space Heater # 1 - 100,000 Btu/hr	6.09	293	0.001	5.48	0.000059	0.00075		0.0000
	Space Heater # 2 -	0.05	273	0.001	3.40	0.000039	0.00073	0.0098	0.0082
9	100,000 Btu/hr	6.09	293	0.001	5.48	0.000059	0.00075	0.0098	0.0082
10	Space Heater # 3 - 100,000 Btu/hr	6.09	293	0.001	5.48	0.000059	0.000		
	Fan Coater # 1, Fan	0.05	475	0.001	J.40	0.000039	0.00075	0.0098	0.0082
11	Coater # 4	7.01	293	3.59	0.91	0.0	0.0	0.0	0.0
12	Fan Coater # 2	7.01	293	3.59	0.91	0.0	0.0	0.0	0.0
13	Fan Coater # 3 ² , Printer # 1 ² , Printer # 2 ² , Roll Coater # 1 ²	7.01	293	3.59					
	Oven Heater # 5 -	7.01	493	3.39	0.91	0.0	0.0	0.0	0.0
15	140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	0.0115
16	Oven Heater # 6 - 140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	
	Oven Heater # 7 -	0.02		5.001	3.70	0.000062	0.0010	0.014	0.0115
17	140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	0.0115
	Oven Heater #8 -	<u> </u>	-			- 320002	3,0010	0.014	0.0113
18	140,000 Btu/hr	6.09	293	0.001	5.48	0.000082	0.0010	0.014	0.0115
19	Space Heater # 4 - 100,000 Btu/hr	6.09	293	0.001	5.48	0.000059	0.00075	0.0098	0.0082
20	Space Heater # 5 - 100,000 Btu/hr	6.09	293	0.001	5.48	0.000059	0.00075	0.0098	0.0082

All emission units emit from stacks and are therefore point sources. No area or volume sources are included in this modeling. In accordance with the IDEQ modeling guidelines, horizontal stacks were given a default velocity of 0.001 meters per second (m/sec). Vertical stacks with rain caps were given a default stack velocity of 0.001 m/sec.

The worst case stacks for fuel burning equipment are Ref #18 and Ref #19; together they have an Area of Potential Influence to impact the most buildings (518 Kit, 604 Kit, 612 Kit + Storage Wing, Northeast Corner Storage, Mini Storage and Paint Storage). Each one of these buildings was modeled with the worst case fuel-burning stack parameters possible, a stack velocity of 0.0033 ft/sec (0.001 m/s), flow rate of 50 acfm (1.4 m³/min), stack height of 20 ft (6.09 m), temperature of 280 °F (410.9 K), and a stack diameter of 17.9 feet (5.48 m) to determine worst case emissions from downwash. The stack diameter was manipulated to give a stack velocity of 0.001 m/sec. The actual stack diameter is 0.667 ft (0.2 m).

The worst case stacks for toxics are Ref #3 and Ref #10, together they have an Area of Potential Influence the most buildings (518 Kit, 604 Kit, 612 Kit + Storage Wing, Northeast Corner Storage, Mini Storage and Paint Storage). Each one of these building was modeled with the worst case fuel-burning stack parameters possible, a flow rate of 5,000 acfm (141.6 m^3/min), stack velocity of 11.8 ft/sec (3.59 m/s), temperature of 70 °F (293 K), and a stack diameter of 3 feet (0.91 m) to determine worst case emissions from downwash. The stack height was modeled at 23 feet (7.01 m) to take into account the proposed wall vent stack height increases.

8.2.2 MODELING AND RESULTS

The objective of the modeling analysis was to determine the maximum ambient concentrations of criteria pollutants and TAPs for comparison with NAAQS, AACC and ACC respectively. Ambient air background levels applicable to this area will be added to the air dispersion model output for comparison to NAAQS, AACC and ACC standards. The applicable NAAQS, TAPs and the associated background concentrations used in this modeling, as prescribed by IDEQ, are shown in Table 8.2-2.

The maximum SCREEN3 concentrations from the spray booth, oven/heater and TAPs emissions were used to calculate ambient concentrations. The ambient concentrations plus the background concentrations were summed together to create a total ambient concentration; the total concentration was then compared to the NAAQS or TAPs standards.

Table 8.2-2
National Ambient Air Quality Standards and Background Concentrations

Pollutant	Averaging Period	NAAQS (μg/m³)	Background Concentration (ug/m³)
PM_{10}	Annual	50	86
	24-Hour	150	32.7
NO ₂	Annual	100	40
SO_2	Annual	80	18.3
	24-Hour	365	120
	3-Hour	1300	374
CO	8-Hour	10,000	5,130
	1-Hour	40,000	11,450
Formaldehyde	Annual	77*	NA
Toluene	24-Hour	18,750**	NA
*Is an AACC am ** Is an ACC 24			

8.2.3 SO₂ Modeling

The facility SO₂ sources were modeled for the 3-hour, 24-hour, and annual averaging times. The results are summarized in Table 8.2-3 below. The appropriate background concentrations have been added to determine compliance with the NAAQS.

Table 8.2-3
Refined SO₂ Modeling Results

	Modeled Impacts (μg/m³)				
Source	Annual	3-hour	24-hour		
Oven/Heater	0.21	2.3	1.02		
Background	18.3	374	120		
Total μg/m³	18.5	376.3	121.0		
NAAQS (μg/m³)	80	1300	365		
% NAAQS	23.1%	28.9%	33.2		

All impacts are below NAAQS. No further SO₂ modeling is necessary.

8.2.4 NO₂ Modeling

The facility NO_2 sources were modeled for the annual averaging time. All emitted NO_2 is assumed to be converted to NO_2 for this analysis. The results are summarized in Table 8.2-4 below. The appropriate background concentrations have been added to determine compliance with the NAAQS.

Table 8.2-6
Refined CO Modeling Results

	Maximum Modeled Impa (µg/m³)		
Source	1-hour	8-hour	
Oven/Heater	0.13	251.9	
Background	11,450	5,130	
Total μg/m ³	11,451.1	5,381.9	
NAAQS (μg/m³)	40,000	10,000	
% NAAQS	28.6%	53.8%	

All impacts are below NAAQS; no further CO modeling is required.

8.2.7 FORMALDEHYDE MODELING

The facility formaldehyde sources were modeled for the annual averaging times. The results for are summarized in Table 8.2-7 below. All impacts are below AACC; no further formaldehyde modeling is required.

Table 8.2-7
Formaldehyde Modeling Results

	Maximum Modeled Impacts (µg/m³)
Source	Annual
Spray Booth	0.017
Background	NA
Total μg/m³	0.017
AACC (μg/m³)	0.077
% AACC	22.1%

8.2.8 TOLUENE MODELING

The toluene source was modeled for the 24-hour averaging time. The result is summarized in Table 8.2-8 below. All impacts are below ACC; no further toluene modeling is required.

Table 8.2-8
Toluene Modeling Results

Source	Maximum Modeled Impacts (μg/m³) 24-hour
Coatings Operation	16,220
Background	NA
Total μg/m³	16,220
ACC (μg/m³)	18,750
% ACC	86.5%

8.3 SUMMARY

The modeling results indicate that criteria pollutant and toxic emissions from this facility will not cause or contribute to any exceedances of NAAQS or TAP standards. Table 8.3-1 summarizes the results of the modeling demonstrating NAAQS and TAPs compliance.

The following pages contain downwash and stack parameters utilized in the NAAQS and TAPs compliance demonstration. Supporting documentation is also contained in the following pages.

Table 8.3-1 Modeling Results Summary

Pollutant	Averaging Time	Source Emissions µg/m³	Background µg/m³	Total μg/m³	NAAQS μg/m³	% NAAQS
SO ₂	Annual	0.21	18.3	18.5	80	23.1%
	3-hour	2.3	374	376.3	1,300	28.9%
	24-hour	1.02	120	121.0	365	33.2%
NO ₂	Annual	34.5	40	74.5	100	74.5%
PM-10	Annual	2.97	36.7	39.7	50	79.3%
	24-hour	14.8	130	144.8	150	96.6%
СО	1-hour	0.13	11,450	11,451.1	40,000	28.6%
	8-hour	251.9	5,130	5,381.9	10,000	53.8%
Formaldehyde	Annual	0.017	NA	0.017	0.077*	22.1%
Toluene	24-hour	16,220	NA	16,220	18,750**	86.5%
*Is an AACC an **Is an ACC 24						

8.4 APPENDIX A – IDEQ MODELING CHECKLIST

Idaho DEQ Air Dispersion Modeling Checklist

As a requirement of the air permitting process, an air dispersion modeling analysis (screening and/or refined) must be conducted. Air dispersion models are used to predict the potential impact something may have on the air shed in which it is located. This checklist will aid in collecting all of the necessary information to perform a complete modeling analysis. The EPA Guideline on Air Quality Models and the DEQ Modeling Protocol should be used as a reference to ensure that the modeling techniques used will meet federal and state approval. Please include computer disk copies of the DOS versions of input and output files sufficient for DEQ to reproduce model runs. Copies of the meteorological data files used and all building information should also be included. A scaled plot plan showing the location of all structures needs to be submitted as part of the permitting application.

It is important that the most recent model versions be utilized in any analysis. 1. Name of Applicant/ Company: **Teton Sales Company** Facility Description: Wood Products Coating Operations Caldwell, Idaho Dispersion Model(s) Used: The Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Version 3 (SCREEN3) dated 96043. 2. Source Classification: Number of Point Sources (Section 3) Number of Area Sources (Section 4)

3. Stack/Point Source Parameters (please include for each stack/point source modeled). List the **Maximum** Emissions Rate(s) for each pollutant. NOTE: If the stack is not circular,

Number of Volume Sources ____0

(Section 5)

use equivalent dimensions determined by AREA = $\pi d^2/4$, where d is the inner stack diameter.

Source Spray Booth : (all rates in 16/nr)
PM ₁₀ 0.46 PM _{2.5} NO _x 0.0 SO ₂ 0.0 CO 0.0 VOC 16.52
Toxic(s) (Please List): Ammonia (0.054), 1,2-Ethanediol (0.044), Free Formaldehyde (0.013).
Stack Height 30 ft Stack Diameter 2 ft Stack Temperature 70 F
Stack Exit Velocity: 132.7 ft/sec and/ or Actual Stack Flow Rate 25,000 acfm
Source: Roll Coater # 1 (all rates in lb/hr)
PM ₁₀ 00.0 PM _{2.5} NO _x 0.0 SO ₂ 0.0 CO 0.0 VOC 2.07
Toxic(s) (Please List): Toluene (1.17), MEK (0.52), MIK (0.001), Methanol (0.001), Acetone (9.35), Isopropanol (0.17), Ethyl Acetate (0.001)
Stack Height 8 ft Stack Diameter 2.67 ft Stack Temperature
Stack Exit Velocity 14.9 ft/s and/ or Actual Stack Flow Rate 5,000 acfm
Source Roll Coater # 2 (all rates in lb/hr):
PM ₁₀ 0.0 PM _{2.5} NO _x 0.0 SO ₂ 0.0 CO 0.0 VOC 2.07
Toxic(s) (Please List): <u>Toluene (1.17), MEK (0.52), MIK (0.001), Methanol (0.001), Acetone (9.35), Isopropanol (0.17), Ethyl Acetate (0.001)</u>
Stack Height 4 ft Stack Diameter 3 ft Stack Temperature 70 F

Stack Exit Velocity	11.8 ft/sec and/ or 5,000 acfm	Actual Stack Flow Rate
Source Fan Coater # 1 (all ra	•	
$PM_{\underline{10}}$ 0.0 $PM_{\underline{2}.5}$ NO _x		
Toxic(s) (Please List): Toluene (11.7 Acetone (12.88), Isopropanol (2.21)	(), MEK (3.84), MIK (0. , Ethyl Benzene (0.19),	5), Xylene (1.0), Methanol (0.33), Cumene (0.09)
Stack Height 20 ft	_Stack Diameter	2 ft Stack Temperature 70 F
Stack Exit Velocity 26.54 ft/s AL	L and/ or acfm	Actual Stack Flow Rate 5,000
Source Fan Coater # 2 (all ra		
$PM_{\underline{10}}$ 0.0 $PM_{\underline{2}.5}$ NO_x	0.0 SO ₂ 0.0	CO <u>0.0</u> VOC <u>34.82</u>
Toxic(s) (Please List): Toluene (10.7) Acetone (4.7), Isopropanol (0.9), Eth	5), MEK (9.86), MIK (1 yl Benzene (0.09), Isob	.21), Xylene (0.45), Methanol (0.8), atyl Acetate (1.79)
Stack Height 20 ft	_Stack Diameter2	ft Stack Temperature 70 F
Stack Exit Velocity 26.54 ft/s AL	L and/ or A acfm	actual Stack Flow Rate 5,000
Source Fan Coater # 3 (all rates in lb/	<u>/hr)</u> :	
PM ₁₀ 0.0 PM _{2.5} NO _x	0.0 SO ₂ 0.0	CO 0.0 VOC 23.10

Toxic(s) (Please List): <u>Tolue</u> Acetone (9.55), Isopropanol	ne (14.8 (1.37),]	8), MEK (9.86 Ethyl Benzene	o), MIK (2.0 e (0.01), Isol	8), Xylene (0 outyl Acetate	2 (0.25), Methand 2 (0.25), 2-	<u>)1 (1.36),</u>
Butoxyethanol (0.01)						
Stack Height	8 ft	Stac	k Diameter_	2.67 ft	Stack Tempe	rature
Stack Exit Velocity 14.9 ft/	S	_ and/ or 	Actual St	tack Flow Ra	ate5,000	acfm
Source Fan Coater #	4 (all ra	ates in lb/hr):				
PM ₁₀ 0.0 PM _{2.5}	_NO _x _	0.0 SO ₂		CO 0.0	_VOC <u>34.82</u>	
Toxic(s) (Please List): <u>Tolue</u> <u>Acetone (4.7), Isopropanol (</u>	ene (10.7 (0.9), Et	75), MEK (9.8 hyl Benzene (6), MIK (1. 0.09), Isobu	21), Xylene tyl Acetate ((0.45), Methar 1.79)	nol (0.8),
Stack Height 20 ft		_Stack Diam —	eter2	ft Stack	Temperature_	70 F
Stack Exit Velocity 26.54	I ft∕s A	LL acfm	and/ or A	ctual Stack	Flow Rate	5,000
Source Fan Coater #	5 (all r	rates in lb/hr):				
PM ₁₀ 0.0 PM _{2.5}						
Toxic(s) (Please List): <u>Tolu</u> <u>Acetone (12.88), Isopropan</u>	ene (11. ol (2.21	.7), MEK (3.8), Ethyl Benz	4), MIK (0.5 ene (0.19), C	5), Xylene (1 Cumene (0.09	.0), Methanol	(0.33),
Stack Height 20 ft		Stack Dian	neter2	2 ft Stack	Temperature	70 F

Stack Exit Velocity 26.54 ft/s ALL and/ or Actual Stack Flow Rate 5,000 acfm
Source Printer # 1 (all rates in lb/hr):
PM ₁₀ 0.0 PM _{2.5} NO _x 0.0 SO ₂ 0.0 CO 0.0 VOC 2.9
Toxic(s) (Please List): Toluene (0.009), MIK (0.086), Xylene (0.008), Methanol (0.06), Acetone (0.44), Isopropanol (0.09), Ethyl Benzene (0.0002), Ethyl Acetate (0.013), 2-Butoxyethanol (0.004), Isobutyl Acetate (0.017), Butanol (0.017), Butyl Acetate (0.92).
Stack Height 8 ft Stack Diameter 2.67 ft Stack Temperature 70 F
Stack Exit Velocity 14.9 ft/s and/ or Actual Stack Flow Rate 5,000 acfm
Source Printer # 2 (all rates in lb/hr):
PM ₁₀ 0.0 PM _{2.5} NO _x 0.0 SO ₂ 0.0 CO 0.0 VOC 2.9
Toxic(s) (Please List): Toluene (0.017), MIK (0.17), Xylene (0.016), Methanol (0.109), Acetone (0.89), Isopropanol (0.18), Ethyl Benzene (0.0004), Ethyl Acetate (0.026), 2-Butoxyethanol (0.008), Isobutyl Acetate (0.033), Butanol (0.033), Butyl Acetate (1.84).
Stack Height 8 ft Stack Diameter 2.67 ft Stack Temperature 70 F
Stack Exit Velocity 14.9 ft/s and/ or Actual Stack Flow Rate 5,000 acfm

Source Oven Heaters 1 through 8 (all rates in lb/hr):
ALL PM ₁₀ 0.008 PM _{2.5} NO _x 0.11 SO ₂ 0.0007 CO 0.09 VOC 0.006
Toxic(s) (Please List): NONE
Stack Height #s 1-6 = 20 ft, #s 7-8 = 23 ft Stack Diameter 0.42 ft Stack Temperature 280 F
Stack Exit Velocity 6.02 ft/s and/ or Actual Stack Flow Rate 50
acfm
Source Space Heaters 1 through 5 (all rates in lb/hr):
. * *
ALL PM ₁₀ 0.003 PM _{2.5} NO _x 0.05 SO ₂ 0.0003 CO 0.04 VOC 0.003
Toxic(s) (Please List): NONE
Stack Height #s 1-4 = 20 ft, # 5 = 23 ft Stack Diameter 0.67 ft Stack
Temperature #s 1, 4 and 5 = 190 F, # $2 = 175$ F, # $3 = 250$ F
Stack Exit Velocity 2.4 ft/s and/ or Actual Stack Flow Rate 50 acfm
4. Area Source Parameters (please include for each area source modeled). List the Maximum Emissions Rate(s) for each pollutant.
Source NONE :
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PM ₁₀		_PM _{2.5}	NO _x	SO ₂	CO	VOC
Toxic((s) (Pleas	se List):_				and the second s
Source	e Height		Easterly Dimension	ı	Northerly	Dimension
						
Initial	Vertical	Dimens	on			Angle from North
	· · · · · · · · · · · · · · · · · · ·					
5.			Parameters (please ssions Rate(s) for e			arce modeled). List the
Source	e	NONE	;			
PM ₁₀ _		_PM _{2.5} _	NO _x	SO ₂	CO	VOC
Toxic((s) (Pleas	se List):_				
Source	e Height			I1	nitial Horizontal I	Dimension
Initial	Vertical	Dimens	ion	-		
6.	bound	ary(ies)	eters: (Applies to a as well as nearby s ted by the source(s	tructures (n the property ce the dispersion of
Buildi	ng	518 Kit	:			
	ng Tier i :	_	t: <u>20'</u> Buil	lding Tier #	1 Length: <u>130</u>	' Building Tier #1

Building Tier #2 Height: Width:	_ Building Tier #2 Length:	_ Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	_ Building Tier #3
Building 604 Kit:		
Building Tier #1 Height:20' Width:80'	Building Tier #1 Length:106'	_ Building Tier #1
Building Tier #2 Height:	_ Building Tier #2 Length:	_ Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	_Building Tier #3
Building 612 Kit:		
Building Tier #1 Height:20' Width:60'	Building Tier #1 Length: 100'	Building Tier #1
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Building 612 Kit – Storage Win	g:	

Building Tier #2 Height: Width:	Building Tier #2 Length:	_ Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	-
Building <u>Mini Storage - Parallel</u>	and adjacent to west property line	:
Building Tier #1 Height:14' Width:30'	Building Tier #1 Length: 465' F	Building Tier #1
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Building <u>Metal Building - Kit A</u>	venue, at southeast corner of propert	<u>y</u> :
Building Tier #1 Height:16'	Building Tier #1 Length: 72' Bu	uilding Tier #1 Width:
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Building <u>Metal Building - Imme</u>	diately west of metal building at sout	heast corner of

Building Tier #1 Height:16'	Building Tier #1 Length: 70	<u>P'</u> Building Tier #1 Width:
Building Tier #2 Height:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height:	Building Tier #3 Length:	Building Tier #3
Building <u>Metal Building - Im</u> at southeast corner of property		and North of metal building
Building Tier #1 Height:14'	Building Tier #1 Length:80	'Building Tier #1 Width:
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Building Paint Storage - Imm	ediately east of 604 Kit Avenue	:
Building Tier #1 Height:10'	Building Tier #1 Length: <u>56</u> 3	Building Tier #1 Width:
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Teton Sales Company Tior I Permit Application Renewal		

Building Storage - Immediate	ly east of paint storage buildin	g:
Building Tier #1 Height: 14'	Building Tier #1 Length:	42' Building Tier #1 Width:
Building Tier #2 Height: Width:	Building Tier #2 Length: _	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Building <u>Storage - Immediate</u>	ly east of 518 Kit, near northea	st corner of property
Building Tier #1 Height: 24'	Building Tier #1 Length: _	80' Building Tier #1 Width:
Building Tier #2 Height: Width:	Building Tier #2 Length:	Building Tier #2
Building Tier #3 Height: Width:	Building Tier #3 Length:	Building Tier #3
Tank <u>Acetone Tank</u> Tank Height NA Tank Diameter NA Tank Capacity 3,384 Gallons		

Tank		
Tank Height		
Tank Diameter		
Tank		
Tank Height		
Tank Diameter		

7.	Scaled Plot Plan Showing: (Make sure that all of the buildings and tanks shown on the scaled plot plan are also listed in section 6.)					
	Emission Release Locations X Buildings X (On site and reighboring)					
	(On site and neighboring) TanksNO					
	TanksNO					
	Property Boundary(ies) X Potential Co-contributor(s) NA					
	Sensitive Receptors NA					
location may be populated	Note: Sensitive receptor is defined in IDAPA 58.01.01.007.10 as any residence, building or location occupied or frequented by persons who, due to age, infirmity or health based criteria, may be more susceptible to the deleterious effects of a toxic air pollutant than the general population including, but not limited to, elementary and secondary schools, day care centers, playgrounds and parks, hospitals, clinics, and nursing homes.					
8.	Topographic Map Showing: Not Applicable to Screen3					
	Source Location(s) Building _ Tanks (On site and neighboring) (On site and neighboring)					
	Property Boundary(ies) Model Receptors Maximum Impact Locations					
9.	Meteorology Used (upper air and surface data):					
	On Site NA					
	A quality control and quality assurance analysis, consistent with EPA guidelines, should be included for any on site data used other than that supplied by the National Weather Service (NWS). Contact DEQ regarding the adequacy of this data before use.					
	NWS Data Representative of the Site Pocatello Airport Surface Data 1987-1991, Boise Airport UperAir Data 1987-1991					

		ning (Worst Case) Data <u>NA</u> DEQ approved Screening Met. data				
10.		Urban Rural \underline{X} (DEQ can be contacted for further guidance on source classification)				
	<u>Justifi</u>	cation:				
		w of 1991 serial photography, a 3-kilometer circle centered at the site, shows land less than 50% for I1, I2, C1, R2 or R3 type development.				
Comp	Completeness Determination Questions:					
	-	Was a modeling protocol approved by DEQ prior to permit application? Negotiating a modeling protocol with DEQ assures the applicant that their modeling approach will be accepted. NO				
	-	Is a justification given explaining why a particular dispersion model was used? YES				
	-	Did you document and justify input parameters and model settings (please include written justification)? YES				

- Were grid receptors placed 25 to 50 m apart in the area of maximum impact? NA

Were grid receptors placed 100 to 500 m apart for the initial modeling analysis in

- What ambient air quality standards apply? (i.e. NAAQS, significance standards, AAC, AACC, PSD increment standards) NAAQS, AACC, ACC
- Were DEQ approved background concentrations included in the modeling analysis (attainment and unclassified areas only)? YES

Considerations for major pollution sources and sources subject to PSD regulations:

order to find the area of maximum impact? NA

- Was DEQ contacted regarding the need for (and quality control of) preconstruction monitoring data? NA
- Was a visibility analysis performed? NA
- Was the area of significant impact documented? NA

- Were impacts included (on disk) at all integral UTM coordinates within the significant impact area? NA
- If a major facility (as defined in IDAPA 58.01.01.006.55), was cumulative increment consumption analyzed? NA

Signature of modeler (please print and sign name) Nolting	Daniel Heiser, P.E.	for Leslie
Telephone Number	(801) 943-4144	
Name of DEQ Modeling Contact	Kevin Schilling	
Telephone Number	(208) 373-0112	

Appendix C

Modeling Input File

(See Section 8.1.1)